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## United States Department of Agriculture,

WASHINGTON, D. C., Aug. 31, 1915.

### MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1915.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of any of the publications listed herein, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

#### SERIALS.

Journal of Agricultural Research. Vol. 4, No. 5. August, 1915.

*Contents:* Tensile Strength and Elasticity of Wool. By Robert F. Miller and William D. Tallman.—Influence of Hybridization and Cross-Pollination on Water Requirement of Plants. By Lyman J. Briggs and H. L. Shantz.—Further Studies of the Embryology of Toxoptera Graminum. By W. J. Phillips.—Tricky-Pears as a Feed for Dairy Cows. By T. E. Woodward, W. F. Turner, and David Griffiths.—A Nasty-turtum Wilt Caused by Bacterium Solanacearum. By Mark K. Bryan.—Phosphorus Metabolism of Lambs Fed a Ration of Alfalfa Hay, Corn, and Linseed Meal. By E. L. Ross, M. H. Keith, and H. S. Grindley.—A Bacterial Disease of Lettuce. By Nellie A. Brown. Pp. 379-478, pls. 5, figs. 5. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$2.50 per year, 12 numbers.

Experiment Station Record. Vol. XXXIII, No. 2. August, 1915. E. W. Allen, Ph. D., Editor. Pp. 101-200. Price, 15 cents.

*Same*, Vol. XXXII, Index Number. Pp. 901-1000. Aug. 31, 1915. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at \$1 a volume.

The Monthly Crop Report. Vol. 1, No. 4, August 17, 1915. Pp. 29-40. (Bureau of Crop Estimates.)

The monthly Crop Report contains data relating to agriculture, including estimates of acreage, condition, yield, prices and value of crops and live stock.

#### SERVICE AND REGULATORY ANNOUNCEMENTS.

These contain *only* information, instructions, and notices governing the enforcement of the pure food and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at 5 cents per copy.

Bureau of Animal Industry. No. 98. June, 1915. Pp. 63-82. Aug. 5, 1915. Price, 5 cents.

Bureau of Animal Industry. No. 99. July, 1915. Pp. 83-92. Aug. 21, 1915. Price, 5 cents.

Bureau of Chemistry. No. 14. Pp. 9-20. Aug. 18, 1915. Price, 5 cents.

Bureau of Chemistry, Supplement No. 7. Pp. 363-415. Aug. 5, 1915. Price, 5 cents.

Bureau of Chemistry, Supplement No. 8. Pp. 417-493. Aug. 13, 1915. Price, 10 cents.

Insecticide and Fungicide Board. No. 10. Pp. 31-51. Aug. 31, 1915. Price, 5 cents.

Federal Horticultural Board. July, 1915. No. 18. Pp. 51-54. Aug. 21, 1915. Price, 5 cents.

Office of Markets and Rural Organization. No. 5. Pp. 51-80. Aug. 11, 1915. Price, 5 cents.

## SOIL SURVEYS.

Soil Survey of Muskogee County, Oklahoma. By Grove B. Jones, Cornelius Van Duyne, Ewing Scott, and H. W. Hawker. Pp. 43, pls. 2, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

## BULLETINS.

Testing Grape Varieties in the Vinifera Regions of the United States. By George C. Hushmann, Pomologist in Charge of Viticultural Investigations. Pp. 157, pls. 10, fig. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) Aug. 6, 1915. (Department Bulletin 209.) Price, 25 cents.

Of interest to grape growers throughout the United States.

The Toxicity to Fungi of Various Oils and Salts, Particularly Those Used in Wood Preservation. By C. J. Humpfrey, Assistant Pathologist, and Ruth M. Fleming, Scientific Assistant, Office of Investigations in Forest Pathology. Pp. 38, pls. 4. Contribution from the Bureau of Plant Industry. (Professional Paper.) Aug. 23, 1915. (Department Bulletin 227.) Price, 10 cents.

This bulletin gives the results of a series of investigations conducted at the Forest Products Laboratory, Madison, Wis., as to the preservative value of various oils and salts and their toxic effect on wood-destroying fungi.

Recent Studies of the Mexican Cotton Boll Weevil. By B. R. Coad, Entomological Assistant, Southern Field Crop Insect Investigations. Pp. 34, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) Aug. 2, 1915. (Department Bulletin 231.) Price, 5 cents.

This bulletin is of interest to entomologists in the cotton belt.

Fleas. By F. C. Bishopp, Entomological Assistant, Southern Field Crop Insect Investigations. Pp. 31, figs. 9. Contribution from Bureau of Entomology. Aug. 14, 1915. (Department Bulletin 248.) Price, 5 cents.

The activities of fleas as carriers of bubonic plague and other diseases, as parasites upon poultry, and as pests to man and other animals are presented in this bulletin. Descriptions, life history, breeding places, hosts, and methods of eradication and control are given.

Life History of the Codling Moth in Maine. By E. H. Siegler and F. L. Simanton, Entomological Assistants, Deciduous Fruit Insect Investigations. Pp. 50, pls. 2, figs. 9. Contribution from the Bureau of Entomology. (Professional Paper.) Aug. 10, 1915. (Department Bulletin 252.) Price, 10 cents.

Of interest to fruit growers in the New England States.

Outlets and Methods of Sale for Shippers of Fruits and Vegetables. By J. W. Fisher, jr., and J. H. Collins, Assistants in Market Surveys, and Wells A. Sherman, Specialist in Market Surveys. Pp. 28. Contribution from the Office of Markets and Rural Organization. Aug. 16, 1915. (Department Bulletin 266.) Price, 5 cents.

This bulletin should be of interest to shippers, dealers, and consumers of fruits and vegetables throughout the United States.

Methods of Wholesale Distribution of Fruits and Vegetables on Large Markets. By J. H. Collins and J. W. Fisher, jr., Scientific Assistants, and Wells A. Sherman, Specialist in Market Service. Pp. 28, fig. 2. Contribution from the Office of Markets and Rural Organization. Aug. 16, 1915. (Department Bulletin 267.) Price, 5 cents.

This bulletin should be of interest to shippers, dealers, and consumers of fruits and vegetables throughout the United States.

Farmers' Institute Work in the United States in 1914, and Notes on Agricultural Extension Work in Foreign Countries. By J. M. Stedman, Farmers' Institute Specialist. Pp. 21. (Contribution from the Office of Experiment Stations. July 31, 1915. (Department Bulletin 269.) Price, 5 cents.

This publication is of interest to farmers' institutes and other agricultural extension workers in the United States and Canada.

Dispersion of Gipsy-Moth Larvæ by the Wind. By C. W. Collins, Entomological Assistant, Gipsy Moth and Brown-tail Moth Investigations. Pp. 23, pls. 6, map. Contribution from the Bureau of Entomology. (Professional Paper.) Aug. 24, 1915. (Department Bulletin 273.) Price, 15 cents.

An extended report on one of the important phases of gipsy-moth control work, conducted under the direction of the Bureau of Entomology, and in cooperation with the various States affected.

Cotton Warehouse Construction. By Robert L. Nixon, Assistant in Cotton Marketing. Pp. 38, figs. 13. Contribution from the Office of Markets and Rural Organization. Aug. 7, 1915. (Department Bulletin 277.) Price, 10 cents.

This bulletin should be of special interest to warehousemen, cotton dealers, and those contemplating the construction of cotton warehouses, and of general interest to all farmers, bankers, and business men of the South.

Single-Stalk Cotton Culture at San Antonio. By Rowland M. Meade, Scientific Assistant, Office of Crop Acclimatization. Pp. 20, pls. 6, figs. 3. Contribution from the Bureau of Plant Industry. Aug. 24, 1915. (Department Bulletin 279.) Price, 10 cents.

This bulletin will be of service generally in acquainting those who are interested in cotton growing with the several advantages to be gained through the application of single-stalk culture as compared with the more common methods. It will be particularly helpful to farmers and experimenters in locations similar to the San Antonio region.

**Correlating Agriculture with the Public School Subjects in the Northern States.** By C. H. Lane, Chief Specialist in Agricultural Education, and F. E. Heald, Assistant in Agricultural Education. Pp. 42, figs. 6. Contribution from the States Relations Service. Aug. 12, 1915. (Department Bulletin 281.) Price, 10 cents.

This bulletin is prepared especially for the use of rural-school teachers in the Northern States.

**A Study of the Soft Resins in Sulphured and Unsulphured Hops in Cold and in Open Storage.** By G. A. Russell, Expert, Drug-Plant and Poisonous-Plant Investigations. Pp. 19, figs. 10. Contribution from the Bureau of Plant Industry. (Professional Paper.) Aug. 11, 1915. (Department Bulletin 282.) Price, 5 cents.

This bulletin presents the results obtained from experiments conducted to determine the extent and character of the changes in the soft resins in hops under varying conditions of curing and storage. The soft resins, or so-called bitter acids, are a principal factor in determining the commercial value of hops.

**Rail Shipments and Distribution of Fresh Tomatoes, 1914.** By Wells A. Sherman, Specialist in Market Surveys, and Paul Froehlich and Houston F. Walker, Scientific Assistants. Pp. 12, figs. 2. Contribution from the Office of Markets and Rural Organization. Aug. 30, 1915. (Department Bulletin 290.) Price, 5 cents.

This bulletin is of general interest to tomato growers, shippers, dealers, transportation companies, and consumers, and to all engaged in the trade in tomatoes and vegetables.

**Peach Supply and Distribution in 1914.** By Wells A. Sherman, Specialist in Market Surveys; Houston F. Walker, Scientific Assistant; L. Herbert Martin, Assistant in Market Surveys. Pp. 15, fig. 1. Contribution from the Office of Markets and Rural Organization. Aug. 31, 1915. (Department Bulletin 298.) Price, 5 cents.

This bulletin is of general interest to peach growers, shippers, dealers, transportation companies, and consumers.

**Biochemical Decomposition of Nitrogenous Substances in Soils.** By W. B. Kelley, Chemist. Pp. 25, fig. 1. Aug. 3, 1915. (Bulletin 39, Hawaii Agricultural Experiment Station.) Price, 5 cents.

**The Soils of the Hawaiian Islands.** By W. P. Kelley, Wm. McGeorge, and Alice R. Thompson. Pp. 35. Aug. 26, 1915. (Bulletin 40, Hawaii Experiment Station.) Price, 5 cents.

**The Work of the Belle Fourche Reclamation Project Experiment Farm in 1914.** By Beyer Aune, Farm Superintendent. Pp. 15, figs. 2. Aug. 28, 1915. (Bureau of Plant Industry.) Price, 5 cents.

**The Work of the San Antonio Experiment Farm in 1914.** By S. H. Hastings, Farm Superintendent. Pp. 15, figs. 6. Aug. 28, 1915. (Bureau of Plant Industry.) Price, 5 cents.

**Directory of Officials and Organizations concerned with the Protection of Birds and Game, 1915.** Pp. 16. Aug. 11, 1915. (Doc. 101, Biological Survey.) Price, 5 cents.

#### SEPARATES.

**Story of the Thermometer and Its Uses in Agriculture.** By Alfred H. Thiessen, Section Director, Weather Bureau. Pp. 157-166, figs. 3. (Separate 635, Yearbook 1914.) Price, 5 cents.

**Cooperative Marketing, and Financing of Marketing Associations.** By C. E. Bassett and Clarence W. Moomaw, Specialists in Cooperative Marketing, and W. H. Kerr, Investigator in Market Business Practice, Office of Markets and Rural Organization. Pp. 185-210. (Separate 637, Yearbook 1914.) Price, 5 cents.

**State Management of Public Roads: Its Development and Trend.** By J. E. Pennybacker, Chief of Road Economics, Office of Public Roads. Pp. 211-226, pls. 2, figs. 3. (Separate 638, Yearbook 1914.) Price, 5 cents.

**Movement from City and Town to Farms.** By George K. Holmes, Bureau of Crop Estimates. Pp. 257-274. (Separate 641, Yearbook 1914.) Price, 5 cents.

**Our Shorebirds and Their Future.** By Wells W. Cooke, Assistant Biologist, Bureau of Biological Survey. Pp. 275-294, pls. 3, figs. 3. (Separate 642, Yearbook 1914.) Price, 5 cents.

**The Preparation of Fertilizer from Municipal Waste.** By J. W. Turrentine, Scientist in Soil Laboratory Investigations, Bureau of Soils. Pp. 295-310. (Separate 643, Yearbook 1914.) Price, 5 cents.

**Suggestions from Australasia to American Sheep Raisers.** By F. M. Marshall, Senior Animal Husbandman, in Sheep and Goat Investigations, Bureau of Animal Industry. Pp. 319-338, pls. 2, fig. 1. (Separate 645, Yearbook 1914.) Price, 5 cents.

**Meat Production in the Argentine, and Its Effect Upon the Industry in the United States.** By A. D. Melvin, Chief of the Bureau of Animal Industry, and George M. Rommel, Chief of the Animal Husbandry Division, Bureau of Animal Industry. Pp. 381-390. (Separate 648, Yearbook 1914.) Price, 5 cents.

**Meat Production in Australia and New Zealand.** By E. C. Joss, Veterinary Inspector, Bureau of Animal Industry. Pp. 421-438, pls. 4. (Separate 650, Yearbook 1914.) Price, 5 cents.

**Edible Snails.** By E. W. Rust, Entomological Inspector, Federal Horticultural Board. Pp. 491-503. (Separate 653, Yearbook 1914.) Price, 5 cents.

**Statistics of Grain Crops, 1914.** Bureau of Crop Estimates. Pp. 511-593. (Separate 654, Yearbook 1914.) Price, 5 cents.



Live Stock, 1914, and Census Data. Pp. 612-650. (Separate 656, Yearbook 1914.)  
Price, 5 cents.  
Imports and Exports of Agricultural Products. Bureau of Crop Estimates. Pp. 651-  
687. (Separate 657, Yearbook 1914.) Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, Nos. 20, 21, 22, 23, 24, August, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,  
*Editor and Chief Division of Publications.*